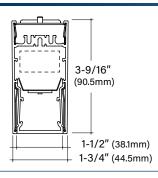
Project Name _

_ Type _









EDGE FX1 1" Suspended Direct Linear



Key Features

EX

- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- Room-Side Maintenance for LED System Wiring access available through bottom of housing
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed

DIRECT SHIELDING

HE - High Efficiency Lens

SQ__JB - 5" Square Canopy

Mounting pg. 3

BW - Batwing Insert

A - Satine Lens

Approved for dry/damp location unless otherwise noted

Ν

N - None

Shielding pg. 2

INDIRECT SHIELDING

- Maximum weight is 10 lbs. for a standard 4' fixture
- Buy American Act compliant







Example Part #: EX1-HE-N-830HO-26'-AC48G1-U-OL2-1-0-W

LENGTH OR PATTERN²

- Individual Fixture

- Continuous Row

S_- Square

| X1 - | - | - N | - | - | - | - | - | - | _ | - |
|------|---------------------|-----------------------|----------------------|----------------------|----------|---------|--------|------------|------------------------|--------|
| | DIRECT SHIELDING | INDIRECT SHIELDING | CRI, CCT & OUTPUT | LENGTH OR PATTERN | MOUNTING | VOLTAGE | DRIVER | CIRCUITING | BATTERY & EMERGENCY | FINISH |

| WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver Shielding pg. 2 | | _35 3500K _40 4000K CL Custom Lumens CW Custom Watts Lumen Output pg. 2 | R_X Rectangle L_X L Shape U_X_X U-Shape T_X T-Shape X_X X-Shape M - Mod Layout Length and Pattern pg. 2-3 |
|---|--|---|---|
| | - | | - |
| MOUNTING ³ | VOLTAGE | DRIVER | CIRCUITING |
| ACG AC to Grid ACJB - AC to J Box ACST - AC to Structure WA - Wall Mount S - Surface Mount AC5G 5" Non-Power Canopy AC5JB - 5" Square Canopy SQG 5" Square Canopy | U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 4 | FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0%, 0-10v) LH1- Lutron Hi-lume (1%, EcoSystem) PS1 - Advance Xitanium (50%/100%) OL2 - Osram (1%, 0-10v) ND - Non-Dimming | 1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 5 |

Driver pg. 4

CRI, CCT & OUTPUT¹

27 **-** 2700K

30_ - 3000K

35_ - 3500K

| BATTERY & EMERGENCY ⁴ | FINISH | CONTROLS |
|---|--|---|
| O - None _FSG - Factory Select ALCR _GI - lota ETS DR _GB - Bodine GTD _PLL - Bodine 10W (low profile) _ILL - lota 10w Integral _E - Emergency Section _N - Night Light Section _L - Life Safety Section _Battery and Emergency pg. 5 | W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 5 | Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information. |

When specifying CRI, CCT & OUTPUT the first _ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending _ _ are for specifying output, example HO - High Output. See output charts for more information. 2 Individual fixtures come in 2, 3, 4, 5, 6, 7, & 8' lengths. Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4.' 3 Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example: AC48G1 "Enter quantity for Battery and Emergency, Example 2PL.





472

54.9

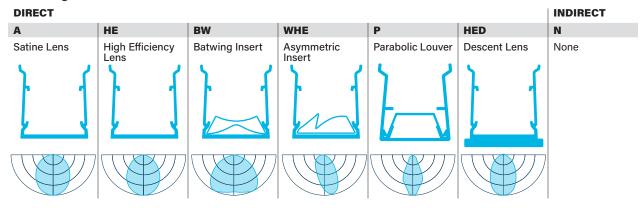
653

75.9

73.5



Shielding



Output

- Specify either 80 or 90 CRI Longer lead-time may apply for 90 CRI. Consult factory. **Custom Output - Lumens OR Wattage**
- 80 CRI = R9≥19 and 90 CRI = R9≥61

| CL | Specify | Specify CRI, CCT and desired lumens (i.e. CL835500) | | | | | Specify lumens between standard offering listed below. Lumens are specified per color temp | | | | | | | | |
|--------|-----------|---|-------------------|----------------------------|------|-------------------------|--|--|------|---------------|------|--------------------|------|----------------|------|
| CW | _ Specify | Specify CRI, CCT and desired wattage (i.e. CW9407) | | | | | | Specify watts between standard offering listed below | | | | | | | |
| 80 CRI | | | | | | | | | | | | | | | |
| | Color | Output | Watts per foot | Shieldir A Satine Le | J | HE High Effi | ciency | BW Batwing | | WHE Asymme | tric | P Louver | | HED Descent | |
| | | | | Lumens/ft | LPW | Lumens/ft | LPW | Lumens/ft | LPW | Lumens/ft | LPW | Lumens/ft | LPW | Lumens/ft | LPW |
| 830 | 3000K | Standard | 4.5 | 347 | 77.1 | 412 | 91.6 | 327 | 72.7 | 365 | 81.1 | 273 | 60.7 | 377 | 83.8 |
| 830HO | 3000K | High | 8.6 | 641 | 74.5 | 761 | 88.5 | 604 | 70.2 | 676 | 78.6 | 504 | 58.6 | 698 | 81.2 |
| 835 | 3500K | Standard | 4.5 | 357 | 79.3 | 424 | 94.2 | 336 | 74.7 | 376 | 83.6 | 281 | 62.4 | 388 | 86.2 |
| 835HO | 3500K | High | 8.6 | 658 | 76.6 | 782 | 90.9 | 621 | 72.2 | 695 | 80.8 | 519 | 60.3 | 717 | 83.4 |
| 840 | 4000K | Standard | 4.5 | 365 | 81.0 | 432 | 96.0 | 343 | 76.2 | 383 | 85.1 | 286 | 63.6 | 396 | 88.0 |
| 840HO | 4000K | High | 8.6 | 670 | 77.8 | 797 | 92.7 | 633 | 73.6 | 708 | 82.3 | 529 | 61.5 | 731 | 85.0 |
| 90 CRI | | | | | | | | | | | | | | | |
| 927 | 2700K | Standard | 4.5 | 274 | 60.8 | 325 | 72.2 | 259 | 57.6 | 289 | 64.2 | 216 | 48.0 | 298 | 66.2 |
| 927HO | 2700K | High | 8.6 | 506 | 58.8 | 601 | 69.9 | 478 | 55.6 | 534 | 62.1 | 399 | 46.4 | 551 | 64.1 |
| 930 | 3000K | Standard | 4.5 | 320 | 71.1 | 359 | 79.8 | 302 | 67.1 | 337 | 74.9 | 252 | 56.0 | 348 | 77.3 |
| 930HO | 3000K | High | 8.6 | 591 | 68.7 | 661 | 76.9 | 557 | 64.8 | 623 | 72.4 | 465 | 54.1 | 643 | 74.8 |
| 935 | 3500K | Standard | 4.5 | 321 | 71.3 | 366 | 81.3 | 303 | 67.3 | 339 | 75.3 | 253 | 56.2 | 349 | 77.6 |
| 935HO | 3500K | High | 8.6 | 592 | 68.8 | 675 | 78.5 | 559 | 65.0 | 625 | 72.7 | 467 | 54.3 | 645 | 75.0 |
| 940 | 4000K | Standard | 4.5 | 326 | 72.4 | 364 | 80.9 | 306 | 68.0 | 342 | 76.0 | 256 | 56.9 | 354 | 78.7 |
| | | | | | | | | | | | | | | | |

77.9

565

65.7

632

Length

940HO

All individual units cannot be joined, end plates are factory installed and cannot be removed

8.6

For Continuous Runs, add 1/4" (6.4mm) for each end plate or 1/2" (12.7mm) to the overall length of the row

598

69.5

670

For patterns, refer to Pattern section on next page

High

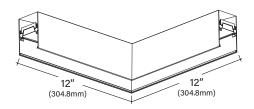
4000K





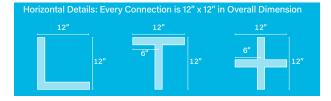


Pattern



- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory

| S _ | R_x_ | U_x_x_ | L_x_ | T_x_ | X_x_ | M |
|---|--|--|--|--|--|--|
| Square Provide A dimension Example: S4' Minimum Length-4'x4' | Rectangle Provide AxB dimensions Example: R4'x4' Minimum Length- 4'x4' | U-Shape Provide AxBxC dimensions Example: U3'x4'x3' Minimum Length- 3'x4'x3' | L-Shape Provide AxB dimensions Example: L3'x3' Minimum Length- 3'x3' | T-Shape Provide AxB dimensions Example: T3'x5' Minimum Length- 3'x5' | X-Shape Provide AxB dimensions Example: X5'x5' Minimum Length- 5'x5' | Mod Layout For patterns or lengths not shown or standard |
| | | | | ь В — — | | |
| A | A | C | A | A | A | |
| A | В | В | В | | В | |

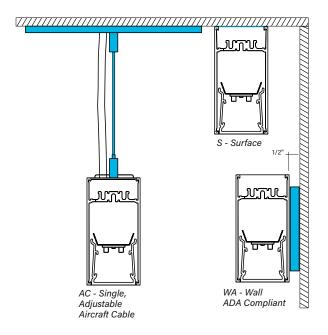


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240", or 350" End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies

| ACG1 | Aircraft Cable 1" (15/16") T-Bar |
|--------|--|
| ACG9 | Aircraft Cable 9/16" T-Bar |
| ACGS | Aircraft Cable Screw Slot T-Bar |
| ACJB | Aircraft Cable Junction Box |
| ACST | Aircraft Cable Structure |
| AC5G_ | Aircraft Cable 5" (127mm) Non-Power Canopy |
| AC5_JB | Aircraft Cable 5" (127mm) Non-Power Canopy |
| SQG_ | Aircraft Cable 5" (127mm) Square Canopy |
| SQJB | Aircraft Cable 5" (127mm) Square Canopy |
| WA | Wall Mount |
| S | Surface Mount |

- Canopies and pendants match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details.
- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 10 lbs for a standard 4' fixture





Voltage

Some EX1 configurations will not accommodate all voltage options; consult with factory

| U | Universal |
|---|-----------|
| 1 | 120 volt |
| 2 | 277 volt |
| 3 | 347 volt |

Driver

- Standard Driver Option = PL2
 Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
 For more driver options, see Pinnacle Resource Guide
 Some EX1 configurations will not accommodate all driver options; consult with factory

| 0-10V Drive | ers |
|--------------------|---|
| FSD | Factory Select Driver 1%, 0-10v |
| PL2 | Signify Advance Xitanium 1%, 0-10v |
| PL4 | Advance Xitanium 347v 1%, 0-10v, requires 347v |
| OL2 | Osram Optotronic, 1%, 0-10v |
| OL4 | Osram Optotronic 347v, 1% 0-10v, requires 347v option |
| EE1 | eldoLED ECOdrive 1%, 0-10v Logarithmic |
| EE2 | eldoLED ECOdrive 1%, 0-10v Linear |
| ES1 | eldoLED SOLOdrive 0-10v, 0% Logarithmic |
| ES2 | eldoLED SOLOdrive 0-10v, 0% Linear |
| DALI Driver | 'S |
| EE3 | eldoLED SOLOdrive 1%, DALI (logarithmic) |
| EE4 | eldoLED SOLOdrive 1%, DALI (linear) |
| OD1 | Osram Optotronic 1%, DEXAL |
| OD2 | Osram Optotronic 1%, DALI 2 Channel |
| Lutron Driv | ers |
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
| LH4 | Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only |
| Alternate D | rivers |
| PS1 | Signify Advance Xitanium Step Dimming 50%/100% |

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

pg. 4





How to specify Circuiting, Battery and Emergency



- Select fixture circuiting from options below
- Some EX1 configurations will not accommodate all circuiting options, consult with factory

Circuiting

| 1 | Single Circuit |
|---|--------------------------|
| M | Multi Circuit |
| E | Emergency Circuit only |
| N | Night Light Circuit only |



- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section options below; factory shop drawing required
- Some EX1 configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

No battery or specific emergency section required

Battery

- Select battery section type if required, indicate total QTY. Example 2PL
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Battery not available for lengths under 4'
- Entire direct fixture housing is on battery for lengths up to 5' Half of direct fixture is on battery for 6', 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

| 0 | No battery |
|------|--|
| _PLL | Bodine 10w Integral Lithium (self testing) |
| _ILL | lota 10w Integral (self testing) |

Emergency

- Select emergency section type if required, indicate total QTY. Example 1E
- Combine battery and emergency section ordering codes if both options are selected

| 00 0 (1 014 | 0 40 / | | all the state of the state of |
|-------------|------------|---------------------|-------------------------------|
| • 92.3 (LPW | /) X 10 (\ | <i>ν</i> aπs) = 92. | 3 battery lume |

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- en output

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery
- Single circuit, GTD required

Ordering Code: E-1PL Ordering Code: 1-1G

| FSG | Factory Select ALCR, Automatic Load Control Relay |
|-----|---|
| GI | Iota ETS DR, Emergency Lighting Control Device |
| GB | Bodine GTD, Emergency Lighting Control Device |
| E | Emergency circuit section |
| | and the state of the state of |

| _GB | Bodine GTD, Emergency Lighting Control Device | | | | |
|-----|---|--|--|--|--|
| _E | Emergency circuit section | | | | |
| _N | Night Light circuit section | | | | |
| _L | Life Safety circuit section NO THROUGH WIRE | | | | |

• Multi circuit, (2) 10w battery, (2) emergency sections

Combination Section Ordering Examples

• Single circuit, (1) 10w battery, (1) emergency section Single circuit, (1) night light section

Ordering Code: M-2PL2E

Ordering Code: 1-1PL1E

Ordering Code: 1-1N

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

| W | White (white cord/white canopy) |
|----|--|
| S | Metallic Silver (grey cord/silver canopy) |
| BL | Textured Black (black cord/black canopy) |
| BR | Bronze (white cord/bronze canopy) |
| GR | Graphite (white cord/graphite canopy) |
| СС | Custom Color (white cord/color match canopy) |

Controls

Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568

EX1_LED_SPEC_NOV2021 pg. 5



Photometrics

High Efficiency Lens

Test # ITI 86985 FX1HF-840-4 Catalog # Lumens 1726 Lm 19.9 W Watts 87 LPW Efficacy



Candela Distribution

| Vert Angle | Horizontal Angle | | | | | |
|---------------|------------------|------|-----|------|-----|--|
| | 0 | 22.5 | 45 | 67.5 | 90 | |
| 0 | 828 | 828 | 828 | 828 | 828 | |
| 5 | 823 | 824 | 823 | 822 | 821 | |
| 10 | 810 | 808 | 804 | 799 | 796 | |
| 15 | 787 | 779 | 769 | 757 | 751 | |
| 20 | 753 | 739 | 722 | 699 | 690 | |
| 25 | 710 | 689 | 662 | 629 | 614 | |
| 30 | 657 | 632 | 595 | 554 | 537 | |
| 35 | 596 | 569 | 524 | 477 | 459 | |
| 40 | 528 | 499 | 449 | 404 | 387 | |
| 45 | 457 | 429 | 379 | 336 | 323 | |
| 50 | 385 | 361 | 315 | 277 | 266 | |
| 55 | 317 | 296 | 256 | 225 | 216 | |
| 60 | 253 | 234 | 203 | 179 | 172 | |
| 65 | 194 | 180 | 156 | 140 | 135 | |
| 70 | 142 | 132 | 116 | 103 | 100 | |
| 75 | 97 | 90 | 79 | 72 | 70 | |
| 80 | 58 | 54 | 48 | 44 | 44 | |
| 85 | 26 | 24 | 21 | 20 | 20 | |
| 90 | 0 | 0 | 0 | 0 | lo | |

Luminance Data (cd/sq.m)

| Angle In | Average | Average | Average |
|----------|---------|---------|---------|
| Degrees | 0-Deg | 45-Deg | 90-Deg |
| 45 | 14181 | 11775 | 10034 |
| 55 | 12136 | 9795 | 8273 |
| 65 | 10063 | 8103 | 6991 |
| 75 | 8216 | 6745 | 5967 |
| 85 | 6677 | 5393 | 5136 |

For all available IES files, please visit our website at pinnacle-ltq.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

Applications & Certificates

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Aircraft cable, wall and surface mount available. The aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 10 lbs for a standard 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. L70 = 124,900 hours and L90 = 37,200 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Two lumen packages available. Standard and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some EX configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver option is Advance Xitanium 0-10V, 1% = PL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 107°F/42°C. For more driver options, see Pinnacle Resource Guide. Some EX configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Multi circuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EX configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Consult factory.

Labels: UL and cUL Listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

Buy American Act Compliant

Warranty: EX LED offered with a 5-year limited warranty. Covers LED, driver and fixture.